

## **FIRE PREVENTION ENGINEER**

### *Class Definition*

Under direction, advises and directs fire inspection personnel; and performs difficult professional engineering review, approval, and testing of fire protection equipment and systems.

### *Distinguishing Characteristics*

Fire Prevention Engineer is a single position class. Assigned to the Fire Prevention and Investigative Services Bureau, the incumbent advises and directs subordinates engaged in plan checking and inspecting fire safety systems, buildings, structures, and properties for fire and life safety hazards and for compliance with local and state codes, ordinances, and laws. Duties also include providing fire protection consultation services to owners, contractors, designers, architects, and engineers. This class is distinguished from other engineering classes by its special emphasis on fire protection systems engineering.

### *Typical Tasks*

(This list is neither inclusive nor exclusive. Consequently, this information may not reflect Essential Functions for this class.)

Makes recommendations and provides professional advice on a variety of fire protection requirements and procedures.

Reviews building plans for adequacy of exit facilities, construction, fire resistive qualities of materials, and fire protection appliances and equipment.

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Provides technical advice to other City staff on the installation, maintenance, and operation of fire protection systems.

Reviews the City's Fire Prevention Codes for adherence to acceptable fire protection engineering; recommends Code revisions.

Provides for and participates in training for subordinate inspection personnel.

Makes field surveys of the more complex buildings.

May represent the City as an expert witness before boards, commissions, and in court.

Performs related duties as required.

*Knowledge, Abilities, and Skills*

Knowledge of modern principles of fire protection engineering.

Knowledge of recognized national fire protection standards, codes, and laws relating to fire safety and prevention.

Knowledge of fire hazards in various manufacturing and industrial processes.

Knowledge of the City water supply and delivery systems.

Knowledge of fire inspection methods and techniques.

Knowledge of inspection and testing procedures of fire protection systems and devices.

Ability to make difficult engineering computations quickly and accurately.

Ability to read, interpret, and work from codes, plans, and blueprints.

Ability to effectively plan, assign and supervise the work of inspection personnel.

Ability to establish and maintain effective working relationships.

Ability to communicate effectively orally and in writing.

*Minimum Qualifications*

State of California Registration as a Fire Protection Engineer; or State of California Registration as a civil, chemical, electrical, mechanical, or structural engineer, and two years of professional experience in the review or design of fire protection systems.

*Special Requirements*

Possession of a valid California Driver's License may be required.

Registration, or progression toward registration, with the State of California as a licensed Fire Protection Engineer is highly desirable.

APPROVED: \_\_\_\_\_  
Director

DATE: \_\_\_\_\_